

DECLARATION FOR PATENT APPLICATION

Atty Docket No. TWI-6600

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

APPARATUS FOR EVALUATING METALIZED LAYERS ON SEMICONDUCTORS

the specification of which (check one) ☐ is attached hereto or ☒ was filed on July 3, 1997
as Application No. 08/887,865 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

			Priority Claimed	
			Yes	No
Number	Country	Day/Month/Year Filed	_____	_____
Number	Country	Day/Month/Year Filed	_____	_____

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) below.

Application Number	Filing Date
_____	_____

Application Number	Filing Date
_____	_____

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Number	Filing Date	Status: Patented, Pending, Abandoned
_____	_____	_____

Application Number	Filing Date	Status: Patented, Pending, Abandoned
_____	_____	_____

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Jon Opsal

Inventor's signature 

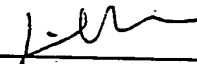
Date 11/24/97

Residence 2295 Norwood Road, Livermore, CA 94550

Citizenship U.S.A.

Post Office Address 2295 Norwood Road, Livermore, CA 94550

Full name of second joint inventor, if any, Li Chen

Inventor's signature 

Date 11/24/97

Residence 270 Franciscan Court #10, Fremont, CA 94539

Citizenship Chinese

Post Office Address 270 Franciscan Court #10, Fremont, CA 94539

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
APPLICATION FOR UNITED STATES PATENT

In re Patent Application of

Jon Opsal, et al.

Appln. No. 08/887,865

Filed: July 3, 1997

For: APPARATUS FOR EVALUATING METALIZED
LAYERS ON SEMICONDUCTORS

Group Art Unit: 2505

POWER OF ATTORNEY BY ASSIGNEE

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

THERMA-WAVE, INC., assignee of the entire right title and interest in the above-identified application by assignment dated November 24, 1997, which assignment was recorded in the Patent and Trademark Office on March 2, 1998, at Reel 9020, frame 443, hereby appoints the members of the firm of LIMBACH & LIMBACH L.L.P., a firm composed of:

Karl A. Limbach	18,689	W. Patrick Bengtsson	32,456	Kyla L. Harriel	P-41,816
George C. Limbach	19,305	Mark A. Dalla Valle	34,147	Mayumi Maeda	40,075
John K. Utkema	20,282	Charles P. Sammut	28,901	Kent J. Tobin	39,496
Neil A. Smith	25,441	Mark C. Pickering	36,239	Christine S. Ring	P-42,106
Veronica C. Devitt	29,375	Kathleen A. Frost	37,326	Michael R. Ward	38,651
Ronald L. Yin	27,607	Alan S. Hodes	38,185	Steven M. Santisi	40,157
Gerald T. Sekimura	30,103	Patricia Coleman James	37,155	Charles L. Hamilton	P-42,624
Michael A. Stallman	29,444	Alan A. Limbach	39,749	Andrew V. Smith	P-43,132
Philip A. Girard	28,848	Douglas C. Limbach	35,249	Heath W. Hoglund	41,076
Michael J. Pollock	29,098	Brian J. Keating	39,520	J. Thomas McCarthy	22,420
Stephen M. Everett	30,050	Seong-Kun Oh*			
Alfred A. Equitz	30,922	Cameron A. King	P-41,897		

* Recognition under 37 CFR 10.9(b)

as its attorneys with full power of substitution to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith.


Please direct all correspondence regarding this application to the following:

LIMBACH & LIMBACH L.L.P.
Attn: Michael A. Stallman
2001 Ferry Building
San Francisco, CA 94111

Telephone: (415) 433-4150
Facsimile: (415) 433-8716

Date d: 6/9/98

THERMA-WAVE, INC.

By: 
Name: Allan Rosenwaig
Title: Chief Executive Officer



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MAY 06, 1998

PTAS

LIMBACH & LIMBACH L.L.P.
MICHAEL A. STALLMAN
2001 FERRY BLDG.
SAN FRANCISCO, CA 94111

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MAY 14 1998

Limbach & Limbach

TW-6600

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/02/1998

REEL/FRAME: 9020/0443
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
OPSAL, JON

DOC DATE: 11/24/1997

ASSIGNOR:
CHEN, LI

DOC DATE: 11/24/1997

ASSIGNEE:
THERMA-WAVE, INC.
1250 RELIANCE WAY
FREMONT, CALIFORNIA 94539

SERIAL NUMBER: 08887865
PATENT NUMBER:

FILING DATE: 07/03/1997
ISSUE DATE:

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



100659974

To the Commissioner of Patents and Trademarks.

ments or copy thereof.

1. Name of conveying party(ies):

Jon Opsal and Li Chen

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: November 24, 1997

2. Name and address of receiving party(ies)

Name: THERMA-WAVE, INC.Internal Address: 1250 Reliance WayStreet Address: 1250 Reliance WayCity, State and Zip: Fremont, CA 94539

Additional Name(s) & address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
08/887,865

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael A. Stallman

Internal Address: Limbach & Limbach L.L.P.
 Street Address: 2001 Ferry Building
 City, State, ZIP: San Francisco, California 94111
 Telephone: (415) 433-4150
 Facsimile: (415) 433-8716

Attorney Docket No. TWI-66006. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41):.....\$ 40.00

- ☒ Enclosed
☒ Charge any deficiencies in the enclosed fee to
 Deposit Account No. 12-1420
☐ Authorized to be charged to deposit account

B. Deposit account number: 12-1420

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael A. Stallman, Reg. No. 29,444

Name of Person Signing

Michael
Signature2/15/98
Date03/12/1998 SSMITH 00000032 08887865
01 FL:561 40.00 00Total number of pages including cover sheet, attachments and document: 3

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Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20213, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

ASSIGNMENT

WHEREAS, WE, Jon Opsal and Li Chen, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: APPARATUS FOR EVALUATING METALIZED LAYERS ON SEMICONDUCTORS

Application (Declaration/Oath) Execution Date: November 24, 1997

Filing Date: July 3, 1997 Application No.: 08/887,865

WHEREAS, THERMA-WAVE, INC., a corporation of the State of Delaware, 1250 Reliance Way, Fremont, CA 94539 hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any such Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

Date: Nov 24, 1997

Jon Opsal

State of California

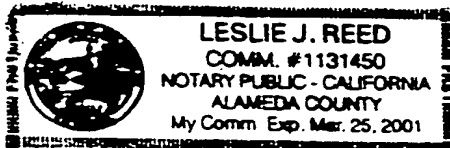
County of Alameda

On Nov 24, 1997 before me, LESLIE J. REED personally appeared Jon Opsal personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Leslie J. Reed
Signature of Notary

SEAL



IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

Date: 11-24-97

Li Chen
Li Chen

State of California

County of Alameda

On 11-24-97 before me, LESLIE J. REED

personally appeared Li Chen personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

Leslie J. Reed
Signature of Notary

